04-18-01 04-CO #3 03-09-01.

DATE: 03/13/2001

PAGE: 1

### RAW SEQUENCE LISTING PATENT APPLICATION US/09/756,551

TIME: 23:08:43

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This Raw Listing contains the General Information Section and up to the first 5 pages.

(i) APPLICANTS: C. MOYOUW et al.  (ii) APPLICANTS: C. MOYOUW et al.  (iii) TITLE OF INVENTION: ENCAPSIDATED RECOMBINANT VIRAL  NUCLEIC ACID AND METHODS OF MAKING AND  USING SAME  (iv) CORRESPONDENCE ADDRESS:  (iv) CORRESPONDENCE ADDRESS:  (iv) CORRESPONDENCE ADDRESS:  (iv) CORRESPONDENCE ADDRESS:  (iv) CORTEST STREET  (iv) CITY: BOSTON  (iv) CONTRY: USA  (iv) COMPUTER READABLE FORM:  (iv) COMPUTER READABLE FORM:  (iv) COMPUTER: IBM PC compatible  (iv) OPERATING SYSTEM: PC-DOS/MS-DOS  (iv) COMPUTER: ASCII  (vi) OPERATING SYSTEM: PC-DOS/MS-DOS  (iv) CORPUTER READABLE FORM:  (ivi) CURRENT APPLICATION DATA:  (ivi) PRIOR APPLICATION NUMBER: 09/756,551  (ivi) PRIOR APPLICATION DATA:  (ivi) PRIOR APPLICATION NUMBER: US 08/087,009  (ivii) ATTORNEY/AGENT INFORMATION:  (ivii) ATTORNEY/AGENT INFORMATION:  (ivi) TELECOMMUNICATION INFORMATION:  (ivi) TELECOMMUNICATION INFORMATION:	1	SEQUENCE LISTING	
(i) APPLICANTS: C. MORYOW et al.  (ii) TITLE OF INVENTION: ENCAPSIDATED RECOMBINANT VIRAL  NUCLEIC ACID AND METHODS OF MAKING AND  USING SAME  (iii) NUMBER OF SEQUENCES: 23  (iv) CORRESPONDENCE ADDRESS:  (A) ADDRESSEE: LAHIVE & COCKFIELD  (B) STREET: 28 STATE STREET  (C) CITY: BOSTON  (D) STATE: MASSACHUSETTS  (E) COUNTRY: USA  (F) ZIP: 02109  (V) COMPUTER READABLE FORM:  (A) MEDIUM TYPE: Floppy disk  (B) COMPUTER: IBM PC compatible  (C) OPERATING SYSTEM: PC-DOS/MS-DOS  (D) SOFTWARE: ASCII  (VI) CURRENT APPLICATION DATA:  (A) APPLICATION NUMBER: 09/756,551  (B) FILLING DATE:  (VII) PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: 08/987,867  (B) FILLING DATE:  (VII) PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/087,009  (B) FILLING DATE:  (VII) PRIOR APPLICATION NUMBER: US 08/087,009  (B) FILING DATE: US 08/087,009  (C) CLASSIFICATION:  (VI) PRIOR APPLICATION NUMBER: US 08/087,009  (B) FILING DATE: US 08/087,009  (C) CIPERENCE/DOCKET NUMBER: UAP-004CPDV  (IX) TELECOMMUNICATION INFORMATION:  (IX) NAME: Myers, Louis  (C) REFERENCE/DOCKET NUMBER: UAP-004CPDV	2	(1) Conoral Information.	ENIERED
(i) APPLICANTS: C. MOTYOW et al.  (ii) TITLE OF INVENTION: ENCAPSIDATED RECOMBINANT VIRAL  NUCLEIC ACID AND METHODS OF MAKING AND  USING SAME  (iii) NUMBER OF SEQUENCES: 23  (iv) CORRESPONDENCE ADDRESS:  (A) ADDRESSE: LAHIVE & COCKFIELD  (B) STREET: 28 STATE STREET  (C) CITY: BOSTON  (D) STATE: MASSACHUSETTS  (E) COUNTRY: USA  (F) ZIP: 02109  (v) COMPUTER READABLE FORM:  (A) MEDIUM TYPE: Floppy disk  (B) COMPUTER: IBM PC compatible  (C) OPERATING SYSTEM: PC-DOS/MS-DOS  (D) SOPTWARE: ASCII  (VI) CURRENT APPLICATION DATA:  (A) APPLICATION NUMBER: 09/756,551  (B) FILING DATE:  (VI) PRIOR APPLICATION DATA:  (A) APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/987,867  (VI) PRIOR APPLICATION DATA:  (VI) PRIOR APPLICATION NUMBER: US 08/087,009  (B) FILING DATE: 01-JUL-1993  (VIII) ATTORNEY/AGENT INFORMATION:  (I) NAME: Myers, Louis  (B) REGISTRATION NUMBER: UAP-004CPDV  (IX) TELECOMMUNICATION INFORMATION:		(1) General información:	
(ii) TITLE OF INVENTION: ENCAPSIDATED RECOMEINANT VIRAL  NUCLEIC ACID AND METHODS OF MAKING AND  USING SAME  (iii) NUMBER OF SEQUENCES: 23  (iv) CORRESPONDENCE ADDRESS:  (A) ADDRESSE: LAHIVE & COCKFIELD  (B) STREET: 28 STATE STREET  (C) CITY: BOSTON  (D) STATE: MASSACHUSETTS  (E) COUNTRY: USA  (F) ZIP: 02109  (V) COMPUTER READABLE FORM:  (A) MEDIUM TYPE: Floppy disk  (B) COMPUTER: IBM PC compatible  (C) OPERATING SYSTEM: PC-DOS/MS-DOS  (D) SOFTWARE: ASCII  (VI) CURRENT APPLICATION DATA:  (A) APPLICATION NUMBER: 09/756,551  (B) FILING DATE:  (VI) PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/087,009  (B) FILING DATE: 01-JUL-1993  (VII) PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/087,009  (B) FILING DATE: 01-JUL-1993  (VII) PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/087,009  (B) FILING DATE: 01-JUL-1993  (VIII) ATTORNEY/AGENT INFORMATION:  (I) NAME: Myer'S, Louis  (B) REGISTRATION NUMBER: UAP-004CPDV  (IX) TELECOMMUNICATION INFORMATION:		(i) APPLICANTS: C. Morrow et al.	
## NUCLEIC ACID AND METHODS OF MAKING AND USING SAME  10  11 (iii) NUMBER OF SEQUENCES: 23  12  13 (iv) CORRESPONDENCE ADDRESS: 14 (A) ADDRESSE: LAHIVE & COCKFIELD 15 (B) STREET: 28 STATE STREET 16 (C) CITY: BOSTON 17 (D) STATE: MASSACHUSETTS 18 (E) COUNTRY: USA 19 (F) ZIP: 02109  20  21 (v) COMPUTER READABLE FORM: 22 (A) MEDIUM TYPE: Floppy disk 23 (B) COMPUTER: IBM PC compatible 24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS 25 (D) SOFTWARE: ASCII  26  27 (vi) CURRENT APPLICATION DATA: (A) APPLICATION NUMBER: 09/756,551  29 (B) FILING DATE: 30 (C) CLASSIFICATION: 31  32 (vii) PRIOR APPLICATION NUMBER: 08/987,867 (B) FILING DATE: 35  (vii) PRIOR APPLICATION NUMBER: US 08/087,009 38 (B) FILING DATE: 39  (Viii) PRIOR APPLICATION NUMBER: US 08/087,009 39  40 (viii) ATTORNEY/AGENT INFORMATION: 41 (A) NAME: Myers, Louis 42 (B) REGISTRATION NUMBER: UAP-004CPDV 44  45 (ix) TELECOMMUNICATION INFORMATION:	6	, , , , , , , , , , , , , , , , , , , ,	
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10 11 (iii) NUMBER OF SEQUENCES: 23 12 13 (iv) CORRESPONDENCE ADDRESS: 14 (A) ADDRESSE: LAHIVE & COCKFIELD 15 (B) STREET: 28 STATE STREET 16 (C) CITY: BOSTON 17 (D) STATE: MASSACHUSETTS 18 (E) COUNTRY: USA 19 (F) ZIP: 02109 20 21 (V) COMPUTER READABLE FORM: 22 (A) MEDIUM TYPE: Floppy disk 23 (B) COMPUTER: IBM PC compatible 24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS 25 (D) SOFTWARE: ASCII 26 27 (VI) CURRENT APPLICATION DATA: 28 (A) APPLICATION NUMBER: 09/756,551 29 (B) FILING DATE: 30 (C) CLASSIFICATION: 31 32 (VII) PRIOR APPLICATION DATA: 33 (A) APPLICATION NUMBER: 08/987,867 34 (B) FILING DATE: 35 36 (VII) PRIOR APPLICATION DATA: 37 (A) APPLICATION NUMBER: US 08/087,009 38 (B) FILING DATE: 39 40 (VII) ATTORNEY/AGENT INFORMATION: 41 (A) NAME: Myers, Louis 42 (B) REGISTRATION NUMBER: 35,965 43 (C) REFERENCE/DOCKET NUMBER: UAP-004CPDV 44 45 (ix) TELECOMMUNICATION INFORMATION:	_	NUCLEIC ACID AND METHODS OF MAKING AND	
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(iv)   CORRESPONDENCE ADDRESS:   14		(111) NUMBER OF SEQUENCES: 23	
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15 (B) STREET: 28 STATE STREET 16 (C) CITY: BOSTON 17 (D) STATE: MASSACHUSETTS 18 (E) COUNTRY: USA 19 (F) ZIP: 02109 20 21 (V) COMPUTER READABLE FORM: 22 (A) MEDIUM TYPE: Floppy disk 23 (B) COMPUTER: IBM PC compatible 24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS 25 (D) SOFTWARE: ASCII 26 27 (VI) CURRENT APPLICATION DATA: 28 (A) APPLICATION NUMBER: 09/756,551 29 (B) FILING DATE: 30 (C) CLASSIFICATION: 31 32 (VII) PRIOR APPLICATION DATA: 33 (A) APPLICATION NUMBER: 08/987,867 34 (B) FILING DATE: 35 36 (VII) PRIOR APPLICATION DATA: 37 (A) APPLICATION NUMBER: US 08/087,009 38 (B) FILING DATE: 01-JUL-1993 39 40 (VIII) ATTORNEY/AGENT INFORMATION: 41 (A) NAME: Myers, Louis 42 (B) REGISTRATION NUMBER: 35,965 43 (C) REFERENCE/DOCKET NUMBER: UAP-004CPDV 44 45 (ix) TELECOMMUNICATION INFORMATION:			
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(v) COMPUTER READABLE FORM:  (A) MEDIUM TYPE: Floppy disk  (B) COMPUTER: IBM PC compatible  (C) OPERATING SYSTEM: PC-DOS/MS-DOS  (D) SOFTWARE: ASCII  (vi) CURRENT APPLICATION DATA:  (A) APPLICATION NUMBER: 09/756,551  (B) FILING DATE:  (C) CLASSIFICATION:  (Vii) PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: 08/987,867  (A) APPLICATION NUMBER: 08/987,867  (B) FILING DATE:  (Vii) PRIOR APPLICATION DATA:  (A) APPLICATION DATA:  (B) FILING DATE:  (Vii) PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/087,009  (B) FILING DATE: 01-JUL-1993  (Viii) ATTORNEY/AGENT INFORMATION:  (A) NAME: Myers, Louis  (B) REGISTRATION NUMBER: UAP-004CPDV  (ix) TELECOMMUNICATION INFORMATION:		(F) ZIP: 02109	
(A) MEDIUM TYPE: Floppy disk (B) COMPUTER: IBM PC compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: ASCII  (vi) CURRENT APPLICATION DATA: (A) APPLICATION NUMBER: 09/756,551 (B) FILING DATE: (C) CLASSIFICATION:  (Vii) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: 08/987,867 (B) FILING DATE:  (Vii) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: 08/987,867 (Vii) PRIOR APPLICATION DATA: (A) APPLICATION DATA: (A) APPLICATION DATA: (A) APPLICATION DATA: (A) APPLICATION NUMBER: US 08/087,009 (Viii) PRIOR APPLICATION NUMBER: US 08/087,009 (Viii) ATTORNEY/AGENT INFORMATION: (A) NAME: Myers, Louis (B) REGISTRATION NUMBER: 35,965 (C) REFERENCE/DOCKET NUMBER: UAP-004CPDV  (ix) TELECOMMUNICATION INFORMATION:		() COMPLETE DEADART FORM	
(B) COMPUTER: IBM PC compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: ASCII  (VI) CURRENT APPLICATION DATA: (A) APPLICATION NUMBER: 09/756,551 (B) FILING DATE: (C) CLASSIFICATION:  (VII) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: 08/987,867 (B) FILING DATE: (VII) PRIOR APPLICATION DATA: (B) FILING DATE: (VII) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: US 08/087,009 (B) FILING DATE: 01-JUL-1993 (C) (VIII) ATTORNEY/AGENT INFORMATION: (A) NAME: Myers, Louis (B) REGISTRATION NUMBER: US-004CPDV  (IX) TELECOMMUNICATION INFORMATION:		• • • • • • • • • • • • • • • • • • • •	
(C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: ASCII  (vi) CURRENT APPLICATION DATA: (A) APPLICATION NUMBER: 09/756,551 (B) FILING DATE: (C) CLASSIFICATION:  (Vii) PRIOR APPLICATION DATA: (B) FILING DATE: (B) FILING DATE:  (Vii) PRIOR APPLICATION NUMBER: 08/987,867 (B) FILING DATE:  (Vii) PRIOR APPLICATION DATA: (B) FILING DATE:  (Vii) PRIOR APPLICATION NUMBER: US 08/087,009 (B) FILING DATE: 01-JUL-1993 (C) APPLICATION NUMBER: US 08/087,009 (Viii) ATTORNEY/AGENT INFORMATION: (A) NAME: Myers, Louis (B) REGISTRATION NUMBER: 35,965 (C) REFERENCE/DOCKET NUMBER: UAP-004CPDV  (ix) TELECOMMUNICATION INFORMATION:			
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(vi) CURRENT APPLICATION DATA:  (A) APPLICATION NUMBER: 09/756,551  (B) FILING DATE:  (C) CLASSIFICATION:  (Vii) PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: 08/987,867  (B) FILING DATE:  (Vii) PRIOR APPLICATION DATA:  (A) APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/087,009  (B) FILING DATE: 01-JUL-1993  (Viii) ATTORNEY/AGENT INFORMATION:  (A) NAME: Myers, Louis  (B) REGISTRATION NUMBER: 35,965  (C) REFERENCE/DOCKET NUMBER: UAP-004CPDV  (ix) TELECOMMUNICATION INFORMATION:	25	·	
28 (A) APPLICATION NUMBER: 09/756,551 29 (B) FILING DATE: 30 (C) CLASSIFICATION: 31 32 (vii) PRIOR APPLICATION DATA: 33 (A) APPLICATION NUMBER: 08/987,867 34 (B) FILING DATE: 35 36 (vii) PRIOR APPLICATION DATA: 37 (A) APPLICATION NUMBER: US 08/087,009 38 (B) FILING DATE: 01-JUL-1993 39 40 (viii) ATTORNEY/AGENT INFORMATION: 41 (A) NAME: Myers, Louis 42 (B) REGISTRATION NUMBER: 35,965 43 (C) REFERENCE/DOCKET NUMBER: UAP-004CPDV 44 45 (ix) TELECOMMUNICATION INFORMATION:	26		
(B) FILING DATE:  (C) CLASSIFICATION:  (Vii) PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: 08/987,867  (B) FILING DATE:  (B) FILING DATE:  (C) PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/087,009  (B) FILING DATE: 01-JUL-1993  (Viii) ATTORNEY/AGENT INFORMATION:  (A) NAME: Myers, Louis  (B) REGISTRATION NUMBER: 35,965  (C) REFERENCE/DOCKET NUMBER: UAP-004CPDV  (ix) TELECOMMUNICATION INFORMATION:	27		
(C) CLASSIFICATION:  (Vii) PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: 08/987,867  (B) FILING DATE:  (Vii) PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/087,009  (B) FILING DATE: 01-JUL-1993  (Viii) ATTORNEY/AGENT INFORMATION:  (A) NAME: Myers, Louis  (B) REGISTRATION NUMBER: 35,965  (C) REFERENCE/DOCKET NUMBER: UAP-004CPDV  (ix) TELECOMMUNICATION INFORMATION:		·	
31 32 (vii) PRIOR APPLICATION DATA: 33 (A) APPLICATION NUMBER: 08/987,867 34 (B) FILING DATE: 35 36 (vii) PRIOR APPLICATION DATA: 37 (A) APPLICATION NUMBER: US 08/087,009 38 (B) FILING DATE: 01-JUL-1993 39 40 (viii) ATTORNEY/AGENT INFORMATION: 41 (A) NAME: Myers, Louis 42 (B) REGISTRATION NUMBER: 35,965 43 (C) REFERENCE/DOCKET NUMBER: UAP-004CPDV 44 45 (ix) TELECOMMUNICATION INFORMATION:		• • • • • • • • • • • • • • • • • • • •	
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(A) APPLICATION NUMBER: 08/987,867  (B) FILING DATE:  (C) PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/087,009  (B) FILING DATE: 01-JUL-1993  (Viii) ATTORNEY/AGENT INFORMATION:  (A) NAME: Myers, Louis  (B) REGISTRATION NUMBER: 35,965  (C) REFERENCE/DOCKET NUMBER: UAP-004CPDV  (ix) TELECOMMUNICATION INFORMATION:		(vii) DETOR ADDITONETON DATA.	
(B) FILING DATE:  (Vii) PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/087,009  (B) FILING DATE: 01-JUL-1993  (Viii) ATTORNEY/AGENT INFORMATION:  (A) NAME: Myers, Louis  (B) REGISTRATION NUMBER: 35,965  (C) REFERENCE/DOCKET NUMBER: UAP-004CPDV  (ix) TELECOMMUNICATION INFORMATION:			
35 36 (vii) PRIOR APPLICATION DATA: 37		· · · · · · · · · · · · · · · · · · ·	
(A) APPLICATION NUMBER: US 08/087,009  (B) FILING DATE: 01-JUL-1993  (Viii) ATTORNEY/AGENT INFORMATION:  (A) NAME: Myers, Louis  (B) REGISTRATION NUMBER: 35,965  (C) REFERENCE/DOCKET NUMBER: UAP-004CPDV  (ix) TELECOMMUNICATION INFORMATION:	35	· , ,	
(B) FILING DATE: 01-JUL-1993  (Viii) ATTORNEY/AGENT INFORMATION:  (A) NAME: Myers, Louis  (B) REGISTRATION NUMBER: 35,965  (C) REFERENCE/DOCKET NUMBER: UAP-004CPDV  (ix) TELECOMMUNICATION INFORMATION:	36	(vii) PRIOR APPLICATION DATA:	
40 (viii) ATTORNEY/AGENT INFORMATION: 41 (A) NAME: Myers, Louis 42 (B) REGISTRATION NUMBER: 35,965 43 (C) REFERENCE/DOCKET NUMBER: UAP-004CPDV 44 45 (ix) TELECOMMUNICATION INFORMATION:			
40 (viii) ATTORNEY/AGENT INFORMATION: 41 (A) NAME: Myers, Louis 42 (B) REGISTRATION NUMBER: 35,965 43 (C) REFERENCE/DOCKET NUMBER: UAP-004CPDV 44 45 (ix) TELECOMMUNICATION INFORMATION:		(B) FILING DATE: 01-JUL-1993	
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42 (B) REGISTRATION NUMBER: 35,965 43 (C) REFERENCE/DOCKET NUMBER: UAP-004CPDV 44 45 (ix) TELECOMMUNICATION INFORMATION:			
43 (C) REFERENCE/DOCKET NUMBER: UAP-004CPDV 44 45 (ix) TELECOMMUNICATION INFORMATION:		· · · · · · · · · · · · · · · · · · ·	
44 45 (ix) TELECOMMUNICATION INFORMATION:	_		
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46 (A) TELEPHONE: (617) 227-7400	45	(ix) TELECOMMUNICATION INFORMATION:	
(1) IDDITIONE. (017) 227-7400	46	(A) TELEPHONE: (617) 227-7400	

### RAW SEQUENCE LISTING PATENT APPLICATION US/09/756,551

DATE: 03/13/2001 TIME: 23:08:43

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47
                (B) TELEFAX: (617) 742-4214
 48
 49
50
      (2) INFORMATION FOR SEQ ID NO:1:
51
52
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53
                (A) LENGTH: 14 base pairs
54
                (B) TYPE: nucleic acid
55
                (C) STRANDEDNESS: single
56
                (D) TOPOLOGY: linear
57
58
         (ii) MOLECULE TYPE: cDNA
59
60
61
62
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
63
     TATTAGTAGA TCTG
64
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65
66
     (2) INFORMATION FOR SEQ ID NO:2:
67
68
          (i) SEQUENCE CHARACTERISTICS:
69
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                (B) TYPE: nucleic acid
71
                (C) STRANDEDNESS: single
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72
73
74
         (ii) MOLECULE TYPE: cDNA
75
76
77
78
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82
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86
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88
89
90
         (ii) MOLECULE TYPE: cDNA
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92
         (ix) FEATURE:
93
94
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96
97
98
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99
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# **RAW SEQUENCE LISTING**PATENT APPLICATION US/09/756,551

DATE: 03/13/2001 TIME: 23:08:44

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101						GI		n Ty	r Pr	0 11		I GI	n As	n II		n Gly		
102							1				5				1	0		
103	~																	
104																GTA		100
105	GIn	Met	: Val			Ala	Ile	Ser			Thr	Leu	Asn	Ala	Trp	Val		
106				15					20					25				
107																		
108			GTA															148
109	Lys	Val	. Val	Glu	Glu	Lys	Ala	Phe	Ser	Pro	Glu	Val	Ile	Pro	Met	Phe		
110			30					35					40					
111																		
112	TCA	GCA	ATT A	TCA	GAA	GGA	GCC	ACC	CCA	CAA	GAT	TTA	AAC	ACC	ATG	CTA		196
113	Ser	Ala	Leu	Ser	Glu	Gly	Ala	Thr	Pro	Gln	Asp	Leu	Asn	Thr	Met	Leu		
114		45	;				50					55	•					
115																		
116	AAC	ACA	GTG	GGG	GGA	CAT	CAA	GCA	GCC	ATG	CAA	ATG	TTA	AAA	GAG	ACC		244
117	Asn	Thr	Val	Gly	Gly	His	Gln	Ala	Ala	Met	Gln	Met	Leu	Lys	Glu	Thr		
118	60			-	_	65					70			•		75		
119																		
120	ATC	AAT	GAG	GAA	GCT	GCA	GAA	TGG	GAT	AGA	GTG	CAT	CCA	GTG	CAT	GCA		292
121			Glu															
122					80					85					90			
123																		
124	GGG	CCT	ATT	GCA	CCA	GGC	CAG	ATG	AGA	GAA	CCA	AGG	GGA	AGT	GAC	מידם		340
125			Ile														•	340
126	1			95			0111	1100	100	Olu	110	AI 9	Cly	105	Pob	116		
127				,,,					100					103				
128	GCA	GGA	ACT	ΔСТ	ΔСΤ	ΔCC	بلبش	CAG	CDD	CAA	מידמ	CCA	тсс	አጥር	ארא	አአጥ		388
129			Thr														•	300
130	1114	<b>-</b> 1	110		DCI	1111	пси	115	Giu	GIII	116	GIY	120	Mec	1111	ASII		
131			110					113					120					
132	אמע	CCA	CCT	አጥሮ	CCA	CITIA	CCA	C2 2	עייים ע	ייי אייי	א א א	א מיים א	TICC	א ודו א	7 TO	ama		426
133			Pro														•	436
134	ASII	125	FLO	116	FIO	vaı		Giu	116	ıyı	пуs		пр	TTE	тте	ьеи		
135		125					130					135						
136	CCA	תייים	አአጥ	7777	א רדו א	CITIA	707	3.000	mam	300	COM	7.00	3.00	3 000	ama	a. a		
137			AAT														4	184
138		шец	Asn	цуъ	TTE		Arg	мес	TÀT	ser		THE	ser	тте	Leu	_		
139	140					145					150					155		
	2002	303	C1 2 2	<b>aa</b> z	003	220	~~~	~~~			~~~	m	~	~~~	~~~		_	
140			CAA														į	532
141	тте	Arg	Gln	GIY		ьуs	GIU	Pro	Pne		Asp	Tyr	Val	Asp	_	Phe		
142					160					165					170			
143	~~			~==		~~~												
144			ACT														5	580
145	Tyr	гÀг	Thr		Arg	Ата	GLu	GIn		Ser	GIn	Glu	Val	-	Asn	Trp		
146				175					180					185				
147			<b>~-</b> -															
148			GAA														6	28
149	Met	Thr	Glu	Thr	Leu	Leu	Val		Asn	Ala	Asn	Pro		Cys	Lys	Thr		
150			190					195					200					
151																		
152	ATT	TTA	AAA	GCA	TTG	GGA	CCA	GCG	GCT	ACA	CTA	GAA	GAA	ATG	ATG	ACA	6	76

## RAW SEQUENCE LISTING PATENT APPLICATION US/09/756,551

DATE: 03/13/2001 TIME: 23:08:44

														I.	NPUT	SET:	S36499.raw
153 154 155	Ile	Let 205		a Ala	Leu	Gly	Pro 210		Ala	Thr	Leu	Glu 215				Thr	
156	GCA	TGT	CAC	GGA	СΤΆ	GGA	GGA	כככ	GGC	СΣТ	ΔΔG	GCA	אמא	CTTT	ጥጥር	GCT	724
157																Ala	724
158	220			1		225				*****	230		**** 9	V 4 1		235	
159											250					255	
160	GAA	GCA	ATG	AGC	CAA	GTA	ACA	ААТ	TCA	GCT	ACC	ΔΤΔ	АТС	ΔТС	CAG	AGA	772
161																Arg	772
162					240					245					250	3	
163																	
164	GGC	AAT	TTI	' AGG	AAC	CAA	AGA	AAG	ATT	GTT	AAG	TGT	TTC	AAT	TGT	GGC	820
165																Gly	
166	_			255			·	-	260		•	-		265	-	- 4	
167																	
168	AAA	GAA	GGG	CAC	ACA	GCC	AGA	AAG	T								845
169	Lys	Glu	Gly	His	Thr	Ala	Arg	Lys									
170			270				_	275									
171																	
172																	
173	(2)	INF	ORMA	TION	FOR	SEQ	ID I	NO:4	:								
174																	
175	(i) SEQUENCE CHARACTERISTICS:																
176	(A) LENGTH: 275 amino acids																
177							amino										
178	(D) TOPOLOGY: linear																
179	(ii) MOLECULE TYPE: protein																
180		(	11)	MOLE	CULE	TYPI	Ξ: pı	rote:	in								
181		,															
182		()	X1)	SEQUI	ENCE	DESC	CRIPT	LION	: SE(	) ID	NO:4	1:					
183 184	<b>61</b> m	7	m	D	<b>-</b> 1-	**- 1	<b>~1</b>	•	<b>-</b> 1.	<b>~</b> 1	<b>~</b> 3	~7					
185		ASII	Tyr	Pro		vai	GIn	Asn	тте		GIY	GIn	Met	Val		GIn	
186	1				5					10					15		
187	λla	Tla	cor	Pro	7 ~~	Thr	T 011	7 an	71-	П	770 T	T	T.T. 7	77-7	<b>a</b> 1	<b>a</b> 1	
188	AIA	116	261	20	Arg	1111	ьец	ASII	25	пр	val	ьys	vaı		GIU	GIU	
189				20					25					30			
190	Lvs	Δla	Phe	Ser	Pro	Glu	Va l	Tle	Pro	Mot	Dhe	Sor	λla	Len	Cor	Clu	
191	_,_		35	501	110	Olu	Vul	40	110	I-IC C	rne	DCI	45	пец	PEI	GIU	
192													13				
193	Glv	Ala	Thr	Pro	Gln	Asp	Len	Asn	Thr	Met	Len	Δsn	Thr	Val	Glv	Glv	•
194		50					55					60		·ul	O <sub>z</sub> y	CLY	
195												•					
196	His	Gln	Ala	Ala	Met	Gln	Met	Leu	Lvs	Glu	Thr	Ile	Asn	Glu	Glu	Ala	
197	65					70			-1-		75			024		80	
198																	
199	Ala	Glu	Trp	Asp	Arg	Val	His	Pro	Val	His	Ala	Glv	Pro	Ile	Ala	Pro	
200			•	•	85			-		90		1			95		
201																	
202	Gly	Gln	Met	Arg	Glu	Pro	Arg	Gly	Ser	Asp	Ile	Ala	Glv	Thr	Thr	Ser	
203	=			100			_	-	105	•			•	110			
204																	
205	Thr	Leu	Gln	Glu	Gln	Ile	Gly	Trp	Met	Thr	Asn	Asn	Pro	Pro	Ile	Pro	

## RAW SEQUENCE LISTING PATENT APPLICATION US/09/756,551

DATE: 03/13/2001 TIME: 23:08:44

INPUT SET: S36499.raw

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206 207			115					120					125					
208 209 210	Val	Gly 130	Glu	Ile	Tyr	Lys	Arg 135	Trp	Ile	Ile	Leu	Gly 140	Leu	Asn	Lys	Ile		
211 212 213	Val 145	Arg	Met	Tyr	Ser	Pro 150	Thr	Ser	Ile	Leu	Asp 155	Ile	Arg	Gln	Gly	Pro 160		
214 215 216	Lys	Glu	Pro	Phe	Arg 165	Asp	Tyr	Val	Asp	Arg 170	Phe	Tyr	Lys	Thr	Leu 175	Arg		
217 218 219	Ala	Glu	Gln	Ala 180	Ser	Gln	Glu	Val	Lys 185	Asn	Trp	Met	Thr	Glu 190	Thr	Leu		
220 221 222	Leu	Val	Gln 195	Asn	Ala	Asn	Pro	Asp 200	Cys	Lys	Thr	Ile	Leu 205	Lys	Ala	Leu		
223 224 225	Gly	Pro 210	Ala	Ala	Thr	Leu	Glu 215	Glu	Met	Met	Thr	Ala 220	Cys	Gln	Gly	Val		
226 227 228	Gly 225	Gly	Pro	Gly	His	Lys 230	Ala	Arg	Val	Leu	Ala 235	Glu	Ala	Met	Ser	Gln 240		
229 230 231		Thr			245					250					255			
232 233 234	Gln	Arg	Lys	Ile 260	Val	Lys	Cys	Phe	Asn 265	Cys	Gly	Lys	Glu	Gly 270	His	Thr		
235 236 237	Ala	Arg	Lys 275															
238 239	(2)	INFO	RMAT	'ION	FOR	SEQ	ID N	0:5:										
240 241 242 243 244 245		(i)	(B	) LE ) TY !) ST	E CH NGTH PE: RAND POLO	: 94 nucl EDNE	8 ba eic SS:	se p acid sing	airs									•
246 247 248		(ii)	MOL	ECUL	E TY	PE:	cDNA											
249 250 251 252 253		(ix)		) NA	: ME/KI CATIO			46										
254 255		(xi)	SEQ	UENC:	E DE	SCRI	PTIO	N: S	EQ I	D NO	: 5 :							
256 257 258	AAC	CAA ' Gln ' 1	TGG (	CCA ' Pro 1	TTG / Leu :	ACA ( Thr (	GAA ( Glu (	GAA A	AAA i Lys :	ATA I	AAA ( Lys 1	GCA '	TTA ( Leu '	GTA ( Val (	GAA . Glu	ATT Ile 15		48

### SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/09/756,551

DATE: 03/13/2001 TIME: 23:08:45

INPUT SET: S36499.raw

Line

Error

Original Text